50 SHEETS 100 SHEETS 200 SHEETS

22-141 22-142 22-144

DETECTOR OUTPUT CIRCUIT DIGITAL DETECTOR 10 ... PROCESSOR 58 RAW IMAGE SEGMENTED IMAGE 30-DXNAMIC RANGE IMAGE CHARACTERISTICS DYNAMIC RANGE DETERMINING SYSTEM SOURCE SOURCE CONTROL CIRCUIT

F18,2

20 OBTAIN RAW DIGITAL IMAGE DIVIDE RAW IMAGE HORIZONTAL AND/OR VERTICAL BANDS AVERAGE BANDS TO FORM HORIZONTAL VERTICAL PROFILES OF SUBSAMPLED VECTORS DIFFERENTIATE *5* 6 ∙ SUBSAMPLED VECTOR FOR EACH BAND COMPUTE THRESHOLD BASED ON RAW IMAGE DYNAMIC RANGE DISCRIMINATE EACH DIFFERENTIATED BAND TO IDENTIFY STARTING AND STOPPING POINT OF NON-CLINICAL REGION IN EACH DIFFERENTIATED BAND WASK NON-CLINICAL REGION OUT OF EACH OIFFERENTIATED BAND TO FORM SEGMENTED. IMAGE OF CLINICAL REGION DETERMINE DYNAMIT RANGE CHARACTERISTICS OF SEGMENTED INAGE ADJUST THE DY NAMIC RANGE OF THE SYSTEM TO FORM A

DYNAMIC RANGE ADJUSTED EMAGE BASED ON THE DETERMINED DYNAMIC RANGE CHARACTERISTICS

22-141 22-142 22-144



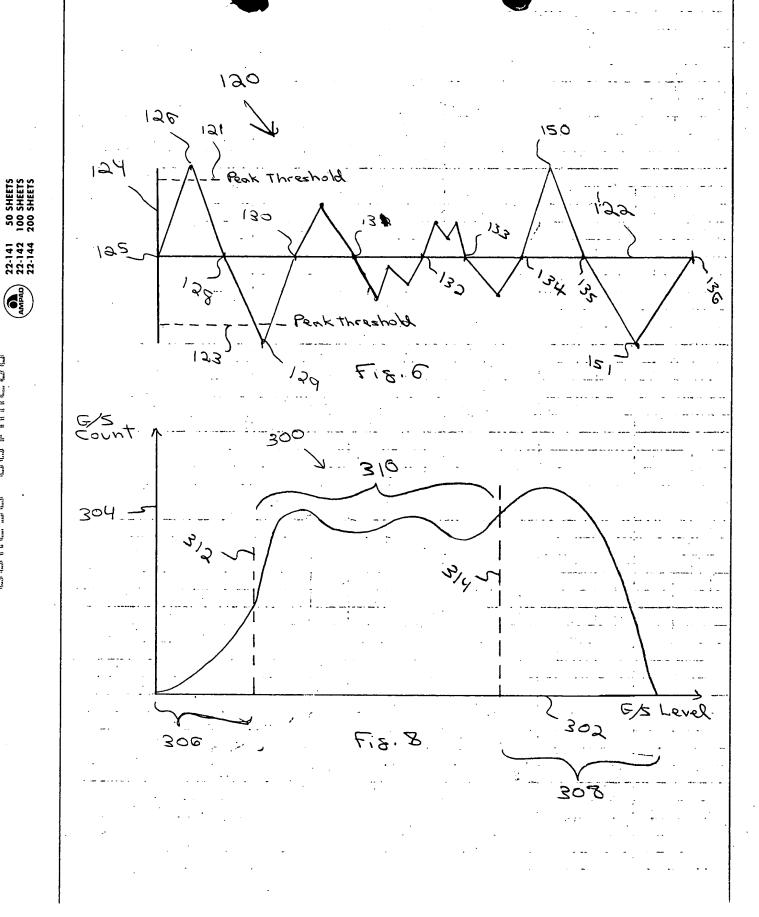
F18.5

76

110

70

70



F18.7

200 OBTAIN RAW DIGITAL IMAGE

GENERATE HISTOGRAM OF RAW IMAGE

204 CALCULATE GRAYSCALE THRESHOLDS FOR NON-CLINICAL REGIONS

IDENTIFY HISTOGRAM PEAKS
CORRESPONDING TO NON-CLINICAL
REGIONS BASED ON THE GRAYSCALE
THRESHOLDS

MASK GRAYSCALE LEVELS OF
THE HISTOGRAM ASSOCIATED
WITH NON-CLIWICAL REGIONS
TO FORM SEGMENTED IMAGE
OF CLINICAL REGION

CHARACTERISTICS OF SEGMENTED IMAGE

ADJUST THE DYNAMIC RANGE
OF THE SYSTEM TO FORM A
DYNAMIC RANGE ADJUSTED
IMAGE BASED ON THE DETERMINED
DYNAMIC RANGE CHARACTERISTICS

22-141 50 SHETS 22-142 100 SHETS 22-144 200 SHEETS

